APPENDIX B-3

DAILY OPENING, CLOSING, AND CONTINUING CALIBRATION VERIFICATION REPORTS

QA/QC CALIBRATION DATA

DATE: 11/14/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	18.1	20	7.6	345	17.3	4.7%	20	7.6	354	17.7	2.2%
CHLOROFORM	HALL	13.1	20	7.1	247	12.4	5.7%	20	7.1	269	13.5	2.7%
1,1-DICHLORO ETHANE	HALL	13.4	20	5.7	248	12.4	7.5%	20	5.7	273	13.7	1.9%
1,2-DICHLORO ETHANE	HALL	14.8	20	8.0	269	13.5	9.1%	20	8.0	265	13.3	10.5%
1,1-DICHLORO ETHENE	PID	0.910	20	4.1	18.5	0.9	1.6%	20	4.1	17.9	0.9	1.6%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	6.5	23.6	1.2	1.7%	20	6.5	22.7	1.1	2.2%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	5.1	43.2	2.2	2.9%	20	5.1	41.3	2.1	1.7%
DICHLOROMETHANE	HALL	11.0	20	4.8	227	11.4	3.2%	20	4.8	257	12.9	16.8%
TETRACHLORO ETHENE	PID	1.05	20	12.9	21.0	1.1	0.0%	20	12.9	20.0	1.0	4.8%
1,1,1,2-TETRACHLORO ETHANE	HALL	18.8	20	15.2	399	20.0	6.1%	20	15.2	391	19.6	4.0%
1,1,2,2-TETRACHLORO ETHANE	HALL	15.9	20	18.3	364	18.2	14.5%	20	18.3	344	17.2	8.2%
1,1,1-TRICHLORO ETHANE	HALL	13.5	20	7.4	254	12.7	5.9%	20	7.4	285	14.3	5.6%
1,1,2-TRICHLORO ETHANE	HALL	8.90	20	12.6	191	9.6	7.3%	20	12.6	211	10.6	18.5%
TRICHLORO ETHENE	PID	1.31	20	9.1	26.3	1.3	0.4%	20	9.1	25.3	1.3	3.4%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	7.70	40	4.1	245	6.1	20.5%	40	4.1	364	9.1	18.2%
BENZENE	PID	2.41	20	8.0	48.9	2.4	1.5%	20	8.0	46.0	2.3	4.6%
CHLOROBENZENE	PID	2.36	20	14.9	46.4	2.3	1.7%	20	14.9	42.5	2.1	10.0%
ETHYLBENZENE	PID	1.94	20	15.2	38.3	1.9	1.3%	20	15.2	36.8	1.8	5.2%
TOLUENE	PID	2.22	20	11.7	44.3	2.2	0.2%	20	11.7	41.9	2.1	5.6%
m&p-XYLENES	PID	2.32	40	15.5	88.7	2.2	4.4%	40	15.5	85.6	2.1	7.8%
o-XYLENE	PID	1.89	20	16.5	36.6	1.8	3.2%	20	16.5	35.6	1.8	5.8%
1,4 DIFLUORO BENZENE	PID	0.870	20	8.6	18.0	0.9	3.4%	20	8.6	17.1	0.9	1.7%
4 BROMOFLUORO BENZENE	PID	2.68	20	17.8	53.2	2.7	0.7%	20	17.8	53.0	2.7	1.1%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 11/14/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

			CONTINUING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	18	20	10.1	317	16	12.4%
CHLOROFORM	HALL	13	20	9.2	231	11.6	11.8%
1,1-DICHLORO ETHANE	HALL	13	20	7.7	231	12	13.8%
1,2-DICHLORO ETHANE	HALL	15	20	10.3	248	12	16.2%
1,1-DICHLORO ETHENE	PID	0.91	20	5.8	16.6	0.8	8.8%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	8.5	22.0	1.1	5.2%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	6.9	39.3	2.0	6.4%
DICHLOROMETHANE	HALL	11	20	6.8	217	10.9	1.4%
TETRACHLORO ETHENE	PID	1.05	20	15.7	19.9	1.0	5.2%
1,1,1,2-TETRACHLORO ETHANE	HALL	19	20	18.2	364	18.2	3.2%
1,1,2,2-TETRACHLORO ETHANE	HALL	16	20	21.0	312	15.6	1.9%
1,1,1-TRICHLORO ETHANE	HALL	14	20	9.6	247	12	8.5%
1,1,2-TRICHLORO ETHANE	HALL	9	20	14.9	189	9	6.2%
TRICHLORO ETHENE	PID	1.31	20	11.5	24.5	1.2	6.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	7.7	40	5.7	304	8	1.3%
BENZENE	PID	2.41	20	10.3	45.7	2.3	5.2%
CHLOROBENZENE	PID	2.36	20	17.6	44.0	2.2	6.8%
ETHYLBENZENE	PID	1.94	20	17.7	36.6	1.8	5.7%
TOLUENE	PID	2.22	20	14.1	41.5	2.1	6.5%
m&p-XYLENES	PID	2.32	40	17.9	84.9	2.1	8.5%
o-XYLENE	PID	1.89	20	19.1	35.3	1.8	6.6%
1,4 DIFLUORO BENZENE	PID	0.87	20	10.7	16.7	0.8	4.0%
4 BROMOFLUORO BENZENE	PID	2.68	20	20.8	51.7	2.6	3.5%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 11/15/01
HP Labs Project #GF111401-T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	18.1	20	7.6	323	16.2	10.8%	20	7.6	316	15.8	12.7%
CHLOROFORM	HALL	13.1	20	7.1	236	11.8	9.9%	20	7.1	225	11.3	14.1%
1,1-DICHLORO ETHANE	HALL	13.4	20	5.7	232	11.6	13.4%	20	5.7	220	11.0	17.9%
1,2-DICHLORO ETHANE	HALL	14.8	20	8.0	268	13.4	9.5%	20	8.0	268	13.4	9.5%
1,1-DICHLORO ETHENE	PID	0.910	20	4.1	16.0	0.8	12.1%	20	4.1	17.2	0.9	5.5%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	6.5	20.9	1.0	9.9%	20	6.5	21.5	1.1	7.3%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	5.1	38.0	1.9	9.5%	20	5.1	40.1	2.0	4.5%
DICHLOROMETHANE	HALL	11.0	20	4.8	224	11.2	1.8%	20	4.8	229	11.5	4.1%
TETRACHLORO ETHENE	PID	1.05	20	12.9	19.0	1.0	9.5%	20	12.9	19.0	1.0	9.5%
1,1,1,2-TETRACHLORO ETHANE	HALL	18.8	20	15.2	346	17.3	8.0%	20	15.2	328	16.4	12.8%
1,1,2,2-TETRACHLORO ETHANE	HALL	15.9	20	18.3	293	14.7	7.9%	20	18.3	277	13.9	12.9%
1,1,1-TRICHLORO ETHANE	HALL	13.5	20	7.4	241	12.1	10.7%	20	7.4	236	11.8	12.6%
1,1,2-TRICHLORO ETHANE	HALL	8.90	20	12.6	179	9.0	0.6%	20	12.6	173	8.7	2.8%
TRICHLORO ETHENE	PID	1.31	20	9.1	23.5	1.2	10.3%	20	9.1	24.3	1.2	7.3%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	7.70	40	4.1	328	8.2	6.5%	40	4.1	325	8.1	5.5%
BENZENE	PID	2.41	20	8.0	43.8	2.2	9.1%	20	8.0	44.1	2.2	8.5%
CHLOROBENZENE	PID	2.36	20	14.9	42.4	2.1	10.2%	20	14.9	40.2	2.0	14.8%
ETHYLBENZENE	PID	1.94	20	15.2	35.3	1.8	9.0%	20	15.2	34.8	1.7	10.3%
TOLUENE	PID	2.22	20	11.7	40.1	2.0	9.7%	20	11.7	39.8	2.0	10.4%
m&p-XYLENES	PID	2.32	40	15.5	81.9	2.0	11.7%	40	15.5	81.1	2.0	12.6%
o-XYLENE	PID	1.89	20	16.5	33.9	1.7	10.3%	20	16.5	33.3	1.7	11.9%
1,4 DIFLUORO BENZENE	PID	0.870	20	8.6	16.1	0.8	7.5%	20	8.6	16.4	0.8	5.7%
4 BROMOFLUORO BENZENE	PID	2.68	20	17.8	49.8	2.5	7.1%	20	17.8	49.7	2.5	7.3%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 11/15/01
HP Labs Project #GF111401-T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

			CONTINUING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	18	20	10.1	332	17	8.3%
CHLOROFORM	HALL	13	20	9.2	236	11.8	9.9%
1,1-DICHLORO ETHANE	HALL	13	20	7.7	231	12	13.8%
1,2-DICHLORO ETHANE	HALL	15	20	10.3	274	14	7.4%
1,1-DICHLORO ETHENE	PID	0.91	20	5.8	17.1	0.9	6.0%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	8.5	22.5	1.1	3.0%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	6.9	40.9	2.0	2.6%
DICHLOROMETHANE	HALL	11	20	6.8	216	10.8	1.8%
TETRACHLORO ETHENE	PID	1.05	20	15.7	20.2	1.0	3.8%
1,1,1,2-TETRACHLORO ETHANE	HALL	19	20	18.2	386	19.3	2.7%
1,1,2,2-TETRACHLORO ETHANE	HALL	16	20	21.0	303	15.2	4.7%
1,1,1-TRICHLORO ETHANE	HALL	14	20	9.6	247	12	8.5%
1,1,2-TRICHLORO ETHANE	HALL	9	20	14.9	204	10	14.6%
TRICHLORO ETHENE	PID	1.31	20	11.5	25.7	1.3	1.9%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	7.7	40	5.7	326	8	5.8%
BENZENE	PID	2.41	20	10.3	47.8	2.4	0.8%
CHLOROBENZENE	PID	2.36	20	17.6	45.1	2.3	4.4%
ETHYLBENZENE	PID	1.94	20	17.7	37.7	1.9	2.8%
TOLUENE	PID	2.22	20	14.1	43.6	2.2	1.8%
m&p-XYLENES	PID	2.32	40	17.9	87.6	2.2	5.6%
o-XYLENE	PID	1.89	20	19.1	36.5	1.8	3.4%
1,4 DIFLUORO BENZENE	PID	0.87	20	10.7	17.2	0.9	1.1%
4 BROMOFLUORO BENZENE	PID	2.68	20	20.8	53.1	2.7	0.9%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 11/19/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	18.2	20	7.6	345	17.3	5.2%	20	7.6	359	18.0	1.4%
CHLOROFORM	HALL	14.3	20	7.1	266	13.3	7.0%	20	7.1	263	13.2	8.0%
1,1-DICHLORO ETHANE	HALL	13.2	20	5.7	263	13.2	0.4%	20	5.7	277	13.9	4.9%
1,2-DICHLORO ETHANE	HALL	14.6	20	8.0	279	14.0	4.5%	20	8.0	268	13.4	8.2%
1,1-DICHLORO ETHENE	PID	0.910	20	4.1	15.4	0.8	15.4%	20	4.1	16.7	0.8	8.2%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	6.5	20.6	1.0	11.2%	20	6.5	21.2	1.1	8.6%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	5.1	37.4	1.9	11.0%	20	5.1	39.2	2.0	6.7%
DICHLOROMETHANE	HALL	13.7	20	4.8	255	12.8	6.9%	20	4.8	285	14.3	4.0%
TETRACHLORO ETHENE	PID	1.05	20	12.9	19.0	1.0	9.5%	20	12.9	18.8	0.9	10.5%
1,1,1,2-TETRACHLORO ETHANE	HALL	19.3	20	15.1	395	19.8	2.3%	20	15.1	395	19.8	2.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	17.0	20	18.3	363	18.2	6.8%	20	18.3	343	17.2	0.9%
1,1,1-TRICHLORO ETHANE	HALL	14.1	20	7.4	261	13.1	7.4%	20	7.4	275	13.8	2.5%
1,1,2-TRICHLORO ETHANE	HALL	11.80	20	12.6	241	12.1	2.1%	20	12.6	221	11.1	6.4%
TRICHLORO ETHENE	PID	1.31	20	9.1	23.5	1.2	10.3%	20	9.1	23.7	1.2	9.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	9.90	40	4.1	381	9.5	3.8%	40	4.1	416	10.4	5.1%
BENZENE	PID	2.41	20	8.0	43.5	2.2	9.8%	20	8.0	43.2	2.2	10.4%
CHLOROBENZENE	PID	2.36	20	14.9	42.6	2.1	9.7%	20	14.9	39.6	2.0	16.1%
ETHYLBENZENE	PID	1.94	20	15.2	35.6	1.8	8.2%	20	15.2	34.3	1.7	11.6%
TOLUENE	PID	2.22	20	11.7	40.1	2.0	9.7%	20	11.7	39.2	2.0	11.7%
m&p-XYLENES	PID	2.32	40	15.5	82.7	2.1	10.9%	40	15.5	79.9	2.0	13.9%
o-XYLENE	PID	1.89	20	16.5	34.4	1.7	9.0%	20	16.5	33.2	1.7	12.2%
1,4 DIFLUORO BENZENE	PID	0.870	20	8.6	15.9	0.8	8.6%	20	8.6	16.0	0.8	8.0%
4 BROMOFLUORO BENZENE	PID	2.68	20	17.8	49.3	2.5	8.0%	20	17.8	49.4	2.5	7.8%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 11/19/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

			CONTINUING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	18	20	10.1	361	18	0.8%
CHLOROFORM	HALL	14	20	9.2	263	13.2	8.0%
1,1-DICHLORO ETHANE	HALL	13	20	7.7	271	14	2.7%
1,2-DICHLORO ETHANE	HALL	15	20	10.3	284	14	2.7%
1,1-DICHLORO ETHENE	PID	0.91	20	5.8	15.5	0.8	14.8%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	8.5	20.6	1.0	11.2%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	6.9	37.5	1.9	10.7%
DICHLOROMETHANE	HALL	14	20	6.8	261	13.1	4.7%
TETRACHLORO ETHENE	PID	1.05	20	15.7	18.8	0.9	10.5%
1,1,1,2-TETRACHLORO ETHANE	HALL	19	20	18.2	400	20.0	3.6%
1,1,2,2-TETRACHLORO ETHANE	HALL	17	20	21.0	343	17.2	0.9%
1,1,1-TRICHLORO ETHANE	HALL	14	20	9.6	269	13	4.6%
1,1,2-TRICHLORO ETHANE	HALL	12	20	14.9	218	11	7.6%
TRICHLORO ETHENE	PID	1.31	20	11.5	23.3	1.2	11.1%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	9.9	40	5.7	369	9	6.8%
BENZENE	PID	2.41	20	10.3	43.4	2.2	10.0%
CHLOROBENZENE	PID	2.36	20	17.6	41.9	2.1	11.2%
ETHYLBENZENE	PID	1.94	20	17.7	34.9	1.7	10.1%
TOLUENE	PID	2.22	20	14.1	39.6	2.0	10.8%
m&p-XYLENES	PID	2.32	40	17.9	81.2	2.0	12.5%
o-XYLENE	PID	1.89	20	19.1	33.8	1.7	10.6%
1,4 DIFLUORO BENZENE	PID	0.87	20	10.7	15.9	0.8	8.6%
4 BROMOFLUORO BENZENE	PID	2.68	20	20.8	49.3	2.5	8.0%

ANALYSES PERFORMED ON-SITE IN CA DOHS MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 11/20/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	18.2	20	7.6	344	17.2	5.5%	20	7.6	332	16.6	8.8%
CHLOROFORM	HALL	14.3	20	7.1	265	13.3	7.3%	20	7.1	260	13.0	9.1%
1,1-DICHLORO ETHANE	HALL	13.2	20	5.7	257	12.9	2.7%	20	5.7	259	13.0	1.9%
1,2-DICHLORO ETHANE	HALL	14.6	20	8.0	268	13.4	8.2%	20	8.0	261	13.1	10.6%
1,1-DICHLORO ETHENE	PID	0.910	20	4.1	18.6	0.9	2.2%	20	4.1	15.3	0.8	15.9%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	6.5	24.8	1.2	6.9%	20	6.5	20.7	1.0	10.8%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	5.1	44.7	2.2	6.4%	20	5.1	37.4	1.9	11.0%
DICHLOROMETHANE	HALL	13.7	20	4.8	248	12.4	9.5%	20	4.8	252	12.6	8.0%
TETRACHLORO ETHENE	PID	1.05	20	12.9	22.4	1.1	6.7%	20	12.9	18.8	0.9	10.5%
1,1,1,2-TETRACHLORO ETHANE	HALL	19.3	20	15.1	386	19.3	0.0%	20	15.1	418	20.9	8.3%
1,1,2,2-TETRACHLORO ETHANE	HALL	17.0	20	18.3	351	17.6	3.2%	20	18.3	354	17.7	4.1%
1,1,1-TRICHLORO ETHANE	HALL	14.1	20	7.4	267	13.4	5.3%	20	7.4	260	13.0	7.8%
1,1,2-TRICHLORO ETHANE	HALL	11.80	20	12.6	233	11.7	1.3%	20	12.6	241	12.1	2.1%
TRICHLORO ETHENE	PID	1.31	20	9.1	27.7	1.4	5.7%	20	9.1	23.4	1.2	10.7%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	9.90	40	4.1	346	8.7	12.6%	40	4.1	374	9.4	5.6%
BENZENE	PID	2.41	20	8.0	51.9	2.6	7.7%	20	8.0	43.4	2.2	10.0%
CHLOROBENZENE	PID	2.36	20	14.9	50.1	2.5	6.1%	20	14.9	42.2	2.1	10.6%
ETHYLBENZENE	PID	1.94	20	15.2	41.5	2.1	7.0%	20	15.2	35.1	1.8	9.5%
TOLUENE	PID	2.22	20	11.7	47.3	2.4	6.5%	20	11.7	39.7	2.0	10.6%
m&p-XYLENES	PID	2.32	40	15.5	96.5	2.4	4.0%	40	15.5	81.5	2.0	12.2%
o-XYLENE	PID	1.89	20	16.5	39.9	2.0	5.6%	20	16.5	33.7	1.7	10.8%
1,4 DIFLUORO BENZENE	PID	0.870	20	8.6	18.9	0.9	8.6%	20	8.6	15.9	0.8	8.6%
4 BROMOFLUORO BENZENE	PID	2.68	20	17.8	57.6	2.9	7.5%	20	17.8	49.8	2.5	7.1%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 11/20/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

COMPOUND	DETECTOR	AVE RF	CONTINUING STANDARD MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	18	20	10.1	351	18	3.6%
CHLOROFORM	HALL	14	20	9.2	266	13.3	7.0%
1,1-DICHLORO ETHANE	HALL	13	20	7.7	264	13	0.0%
1,2-DICHLORO ETHANE	HALL	15	20	10.3	281	14	3.8%
1,1-DICHLORO ETHENE	PID	0.91	20	5.8	15.1	0.8	17.0%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	8.5	20.4	1.0	12.1%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	6.9	37.0	1.9	11.9%
DICHLOROMETHANE	HALL	14	20	6.8	250	12.5	8.8%
TETRACHLORO ETHENE	PID	1.05	20	15.7	18.8	0.9	10.5%
1,1,1,2-TETRACHLORO ETHANE	HALL	19	20	18.2	382	19.1	1.0%
1,1,2,2-TETRACHLORO ETHANE	HALL	17	20	21.0	343	17.2	0.9%
1,1,1-TRICHLORO ETHANE	HALL	14	20	9.6	278	14	1.4%
1,1,2-TRICHLORO ETHANE	HALL	12	20	14.9	242	12	2.5%
TRICHLORO ETHENE	PID	1.31	20	11.5	23.2	1.2	11.5%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	9.9	40	5.7	366	9	7.6%
BENZENE	PID	2.41	20	10.3	43.0	2.2	10.8%
CHLOROBENZENE	PID	2.36	20	17.6	42.3	2.1	10.4%
ETHYLBENZENE	PID	1.94	20	17.7	35.0	1.8	9.8%
TOLUENE	PID	2.22	20	14.1	39.6	2.0	10.8%
m&p-XYLENES	PID	2.32	40	17.9	81.6	2.0	12.1%
o-XYLENE	PID	1.89	20	19.1	33.7	1.7	10.8%
1,4 DIFLUORO BENZENE	PID	0.87	20	10.7	15.8	0.8	9.2%
4 BROMOFLUORO BENZENE	PID	2.68	20	20.8	48.6	2.4	9.3%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC CALIBRATION DATA

DATE: 11/21/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: CONTINUING CALIBRATION (OPENING) ACCUSTANDARD LOT #B1070297
SUPPLY SOURCE: QUALITY CONTROL (CLOSING) ACCUSTANDARD LOT #B0120302
INSTRUMENT: SHIMADZU GC14A FRONT

			OPENING STANDARD					CLOSING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	RF	%DIFF	MASS	RT	AREA	RF	%DIFF
CARBON TETRACHLORIDE	HALL	18.2	20	7.6	396	19.8	8.8%	20	7.6	389	19.5	6.9%
CHLOROFORM	HALL	14.3	20	7.1	320	16.0	11.9%	20	7.1	290	14.5	1.4%
1,1-DICHLORO ETHANE	HALL	13.2	20	5.7	301	15.1	14.0%	20	5.7	287	14.4	8.7%
1,2-DICHLORO ETHANE	HALL	14.6	20	8.0	304	15.2	4.1%	20	8.0	286	14.3	2.1%
1,1-DICHLORO ETHENE	PID	0.910	20	4.1	16.2	0.8	11.0%	20	4.1	16.7	0.8	8.2%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	6.5	21.9	1.1	5.6%	20	6.5	21.4	1.1	7.8%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	5.1	39.7	2.0	5.5%	20	5.1	39.9	2.0	5.0%
DICHLOROMETHANE	HALL	13.7	20	4.8	304	15.2	10.9%	20	4.8	289	14.5	5.5%
TETRACHLORO ETHENE	PID	1.05	20	12.9	19.9	1.0	5.2%	20	12.9	18.9	0.9	10.0%
1,1,1,2-TETRACHLORO ETHANE	HALL	19.3	20	15.1	410	20.5	6.2%	20	15.1	397	19.9	2.8%
1,1,2,2-TETRACHLORO ETHANE	HALL	17.0	20	18.3	385	19.3	13.2%	20	18.3	382	19.1	12.4%
1,1,1-TRICHLORO ETHANE	HALL	14.1	20	7.4	314	15.7	11.3%	20	7.4	308	15.4	9.2%
1,1,2-TRICHLORO ETHANE	HALL	11.80	20	12.6	260	13.0	10.2%	20	12.6	245	12.3	3.8%
TRICHLORO ETHENE	PID	1.31	20	9.1	24.5	1.2	6.5%	20	9.1	23.8	1.2	9.2%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	9.90	40	4.1	400	10.0	1.0%	40	4.1	431	10.8	8.8%
BENZENE	PID	2.41	20	8.0	45.7	2.3	5.2%	20	8.0	43.8	2.2	9.1%
CHLOROBENZENE	PID	2.36	20	14.9	44.2	2.2	6.4%	20	14.9	40.4	2.0	14.4%
ETHYLBENZENE	PID	1.94	20	15.2	36.7	1.8	5.4%	20	15.2	34.9	1.7	10.1%
TOLUENE	PID	2.22	20	11.7	41.7	2.1	6.1%	20	11.7	39.8	2.0	10.4%
m&p-XYLENES	PID	2.32	40	15.5	85.6	2.1	7.8%	40	15.5	81.4	2.0	12.3%
o-XYLENE	PID	1.89	20	16.5	35.4	1.8	6.3%	20	16.5	34.1	1.7	9.8%
1,4 DIFLUORO BENZENE	PID	0.870	20	8.6	16.7	0.8	4.0%	20	8.6	16.1	0.8	7.5%
4 BROMOFLUORO BENZENE	PID	2.68	20	17.8	51.1	2.6	4.7%	20	17.8	49.4	2.5	7.8%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MARK BURKE
DATA REVIEWED BY: TAMARA DAVIS

QA/QC - CALIBRATION DATA

DATE: 11/21/01
HP Labs Project #GF111401T2
TIOGA 2

SUPPLY SOURCE: (CALIBRATION VERIFICATION)
ACCUSTANDARD LOT # B1070297
INSTRUMENT: SHIMADZU GC14A

			CONTINUING STANDARD				
COMPOUND	DETECTOR	AVE RF	MASS	RT	AREA	CF	%DIFF
CARBON TETRACHLORIDE	HALL	18	20	10.1	369	18	1.4%
CHLOROFORM	HALL	14	20	9.2	288	14.4	0.7%
1,1-DICHLORO ETHANE	HALL	13	20	7.7	281	14	6.4%
1,2-DICHLORO ETHANE	HALL	15	20	10.3	303	15	3.8%
1,1-DICHLORO ETHENE	PID	0.91	20	5.8	15.0	0.8	17.6%
CIS-1,2-DICHLORO ETHENE	PID	1.16	20	8.5	21.0	1.1	9.5%
TRANS-1,2-DICHLORO ETHENE	PID	2.10	20	6.9	37.4	1.9	11.0%
DICHLOROMETHANE	HALL	14	20	6.8	272	13.6	0.7%
TETRACHLORO ETHENE	PID	1.05	20	15.7	18.9	0.9	10.0%
1,1,1,2-TETRACHLORO ETHANE	HALL	19	20	18.2	434	21.7	12.4%
1,1,2,2-TETRACHLORO ETHANE	HALL	17	20	21.0	423	21.2	24.4%
1,1,1-TRICHLORO ETHANE	HALL	14	20	9.6	295	15	4.6%
1,1,2-TRICHLORO ETHANE	HALL	12	20	14.9	242	12	2.5%
TRICHLORO ETHENE	PID	1.31	20	11.5	23.3	1.2	11.1%
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	HALL	9.9	40	5.7	363	9	8.3%
BENZENE	PID	2.41	20	10.3	43.5	2.2	9.8%
CHLOROBENZENE	PID	2.36	20	17.6	42.5	2.1	10.0%
ETHYLBENZENE	PID	1.94	20	17.7	35.3	1.8	9.0%
TOLUENE	PID	2.22	20	14.1	40.0	2.0	9.9%
m&p-XYLENES	PID	2.32	40	17.9	82.7	2.1	10.9%
o-XYLENE	PID	1.89	20	19.1	34.3	1.7	9.3%
1,4 DIFLUORO BENZENE	PID	0.87	20	10.7	15.8	0.8	9.2%
4 BROMOFLUORO BENZENE	PID	2.68	20	20.8	50.4	2.5	6.0%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
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DATA REVIEWED BY: TAMARA DAVIS